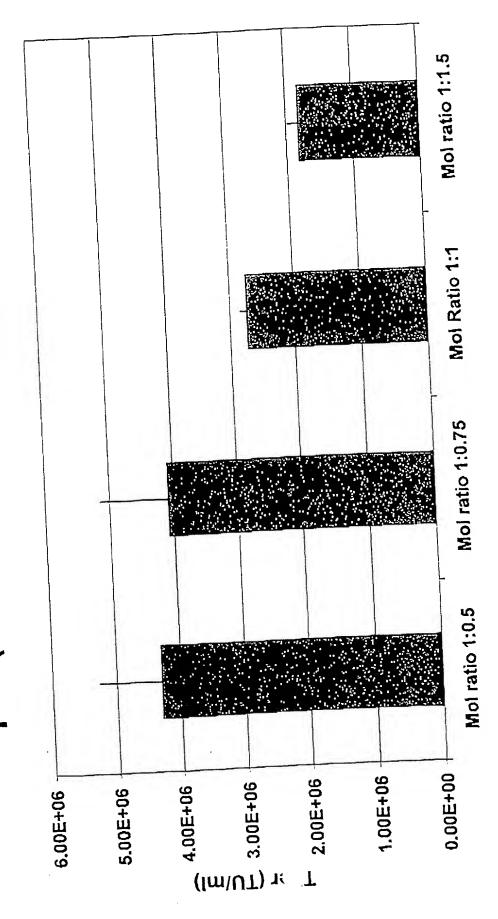


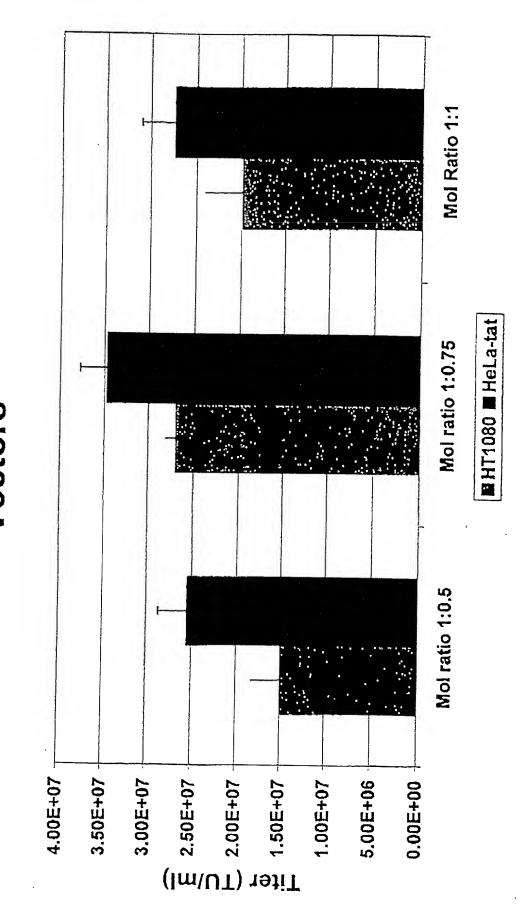
A	+105	GTGTGCCCGTCTG	+117
В		AC	
A		TTGTGTGACTCTG	+130
В			
Α	+131	GTAACTAGAGATC	+143
В		.C.GA.	

FIG. 2

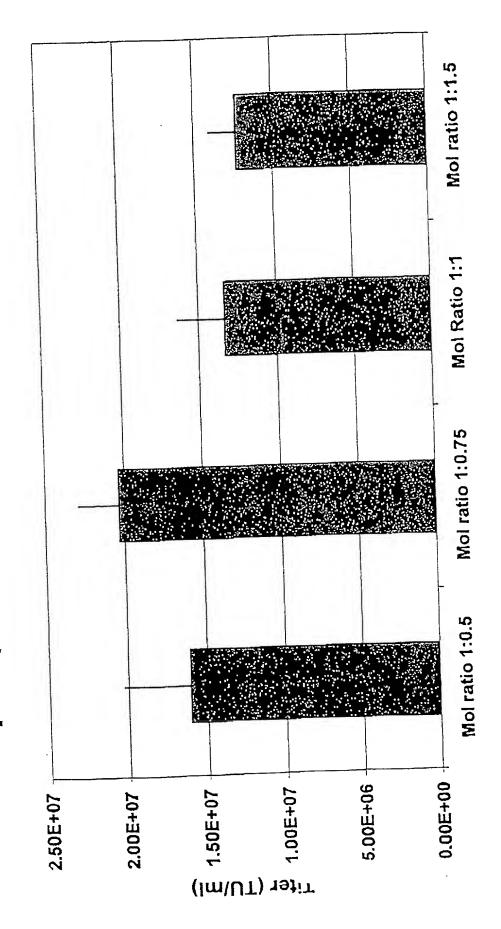
Ratio Optimization for pN1(cPTC)ASenvGFP Vector



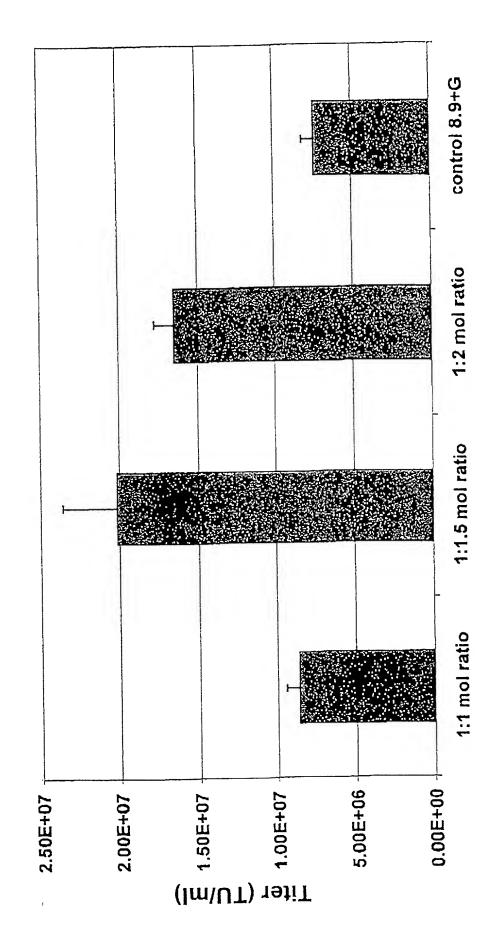
Ratio Optimization for pN1(cPT)GFP Vectors



Ratio Optimization for pN1(cPT2)ASenvGFP Vector



Best Vector to Packaging Ratio for pN1cGFP Vector



Optimiztion of vector to packaging ratio for pN2cGFP

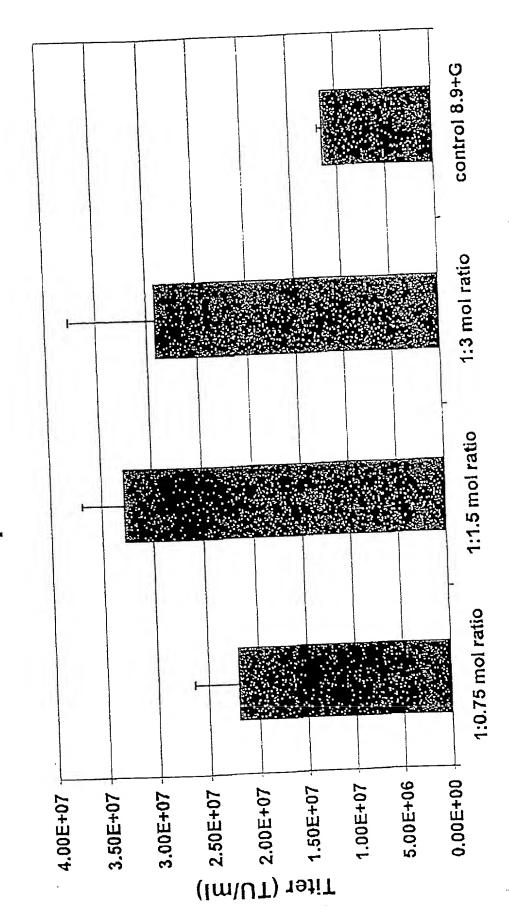
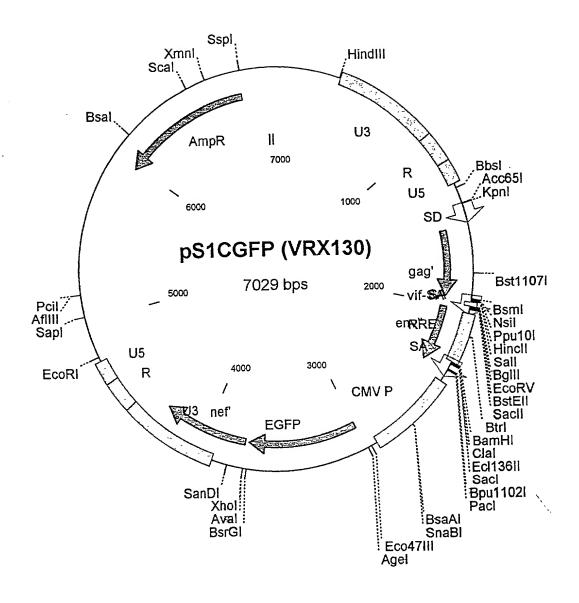
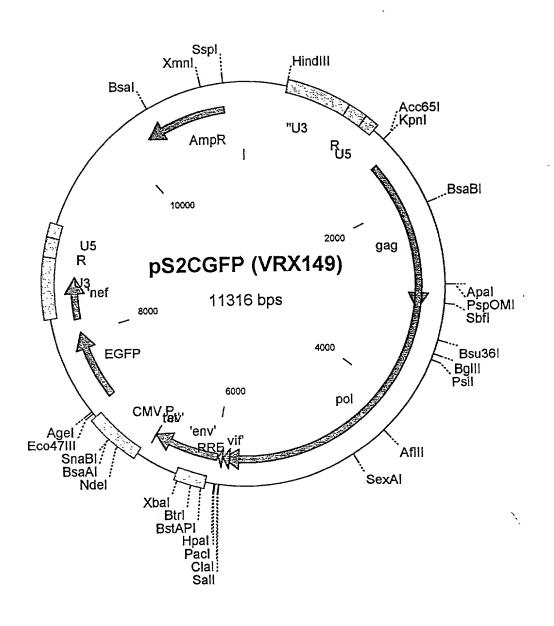
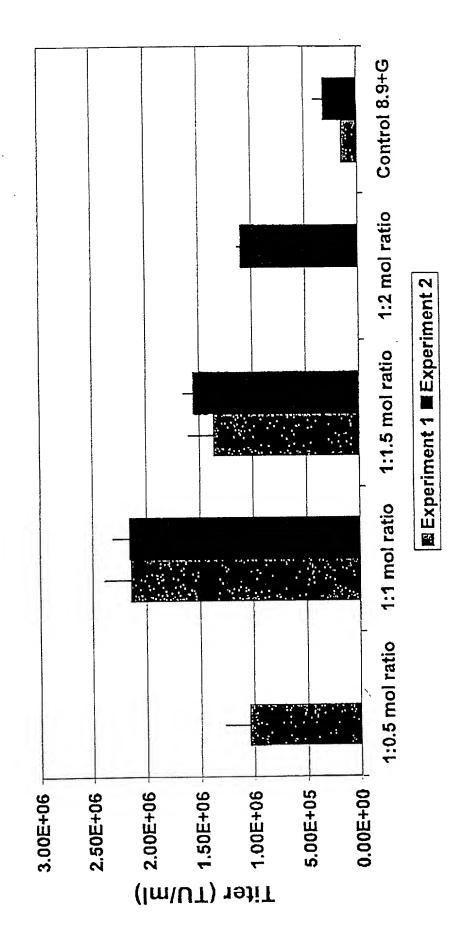


Fig th



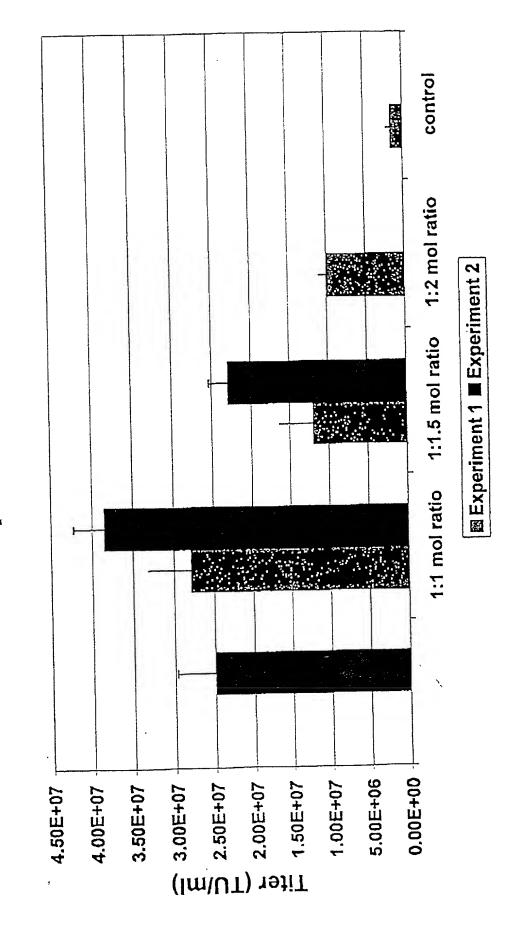


Ratio Optimization for Packaging of pS1cGFP vectors.

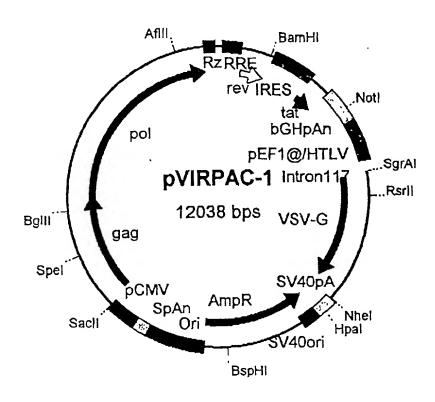


W Vi

Optimiztion of vector to packaging ratio for pS2cGFP



Packaging Construct



New features:

- First 42 nt of gag are degenerated.
- · Tat and rev represented as cDNA.
- First 208 nt of rev and last 183 nt of tat are degenerated.
- RRE from HIV-2 is used instead of HIV-1 RRE. These features eliminate almost any homology with the vector plasmid, make system safer.
- Anti-U5 ribozyme is expressed within gag/pol/RRE cassette, further improving safety.
- Gag/pol/rev/tat/RRE cassette and VSV-G expressed from the same plasmid. This feature may enhance packaging efficiency and titers of the vectors.

Fig. 68 Packaging Plasmid for Second Generation Vectors

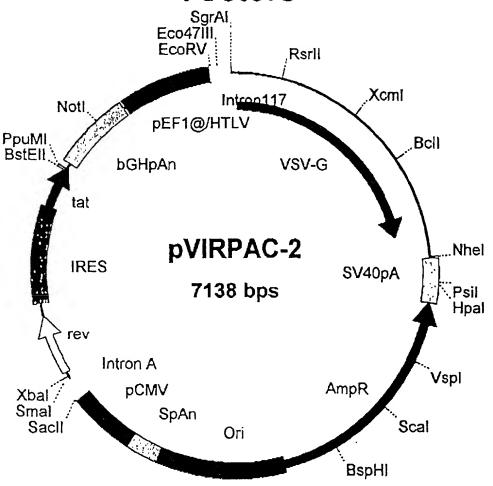
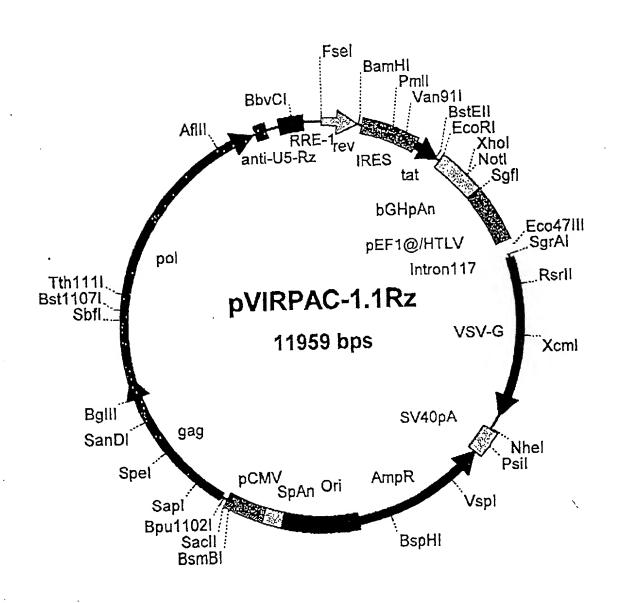
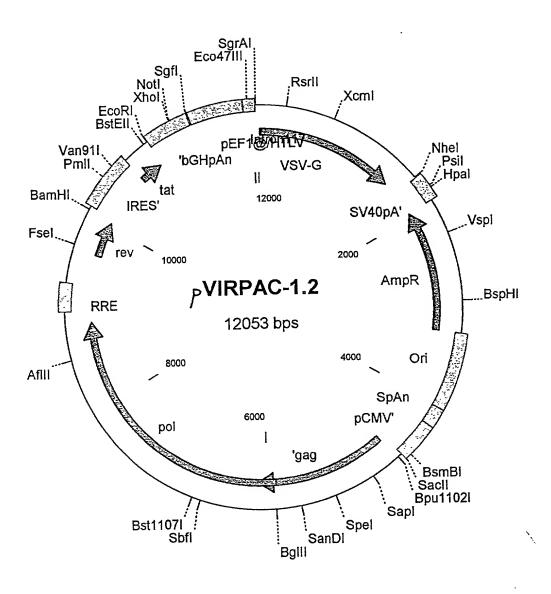
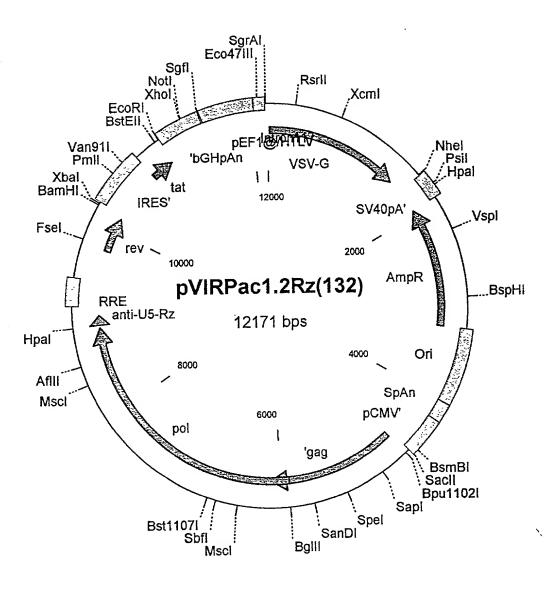
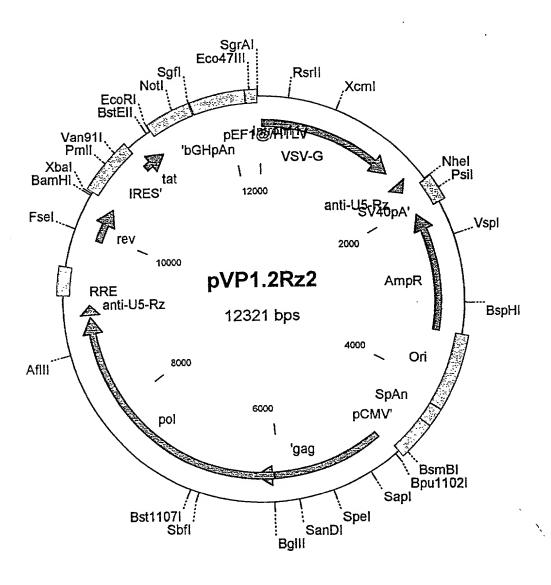


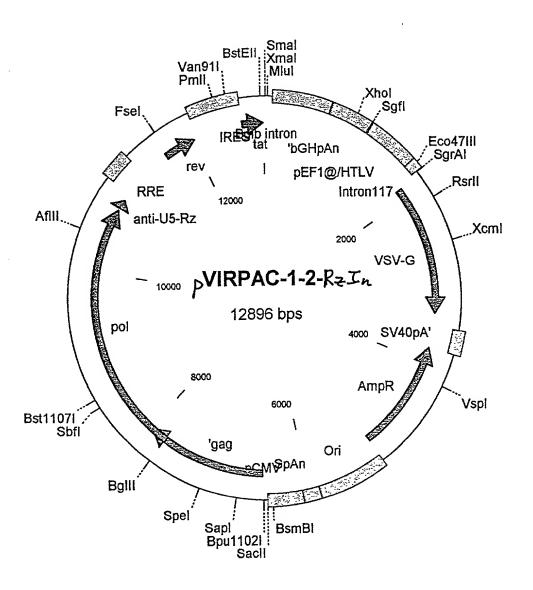
Fig. 60 Packaging Plasmid for First Generation Vectors



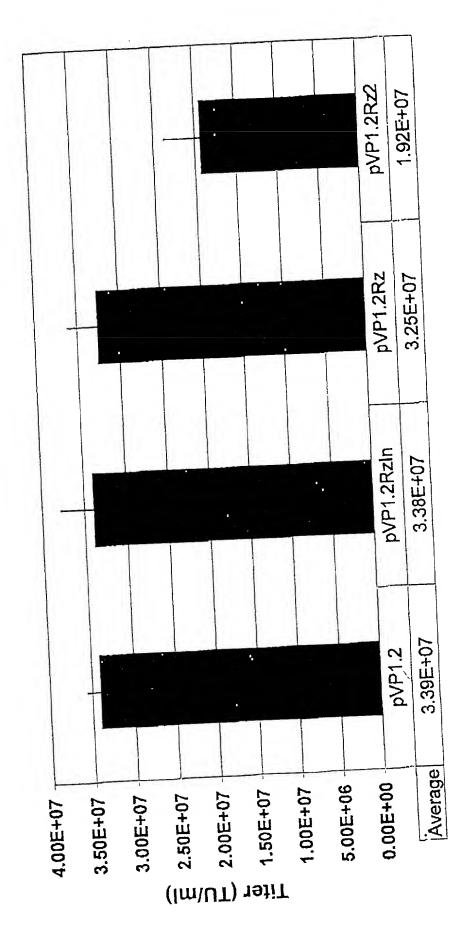






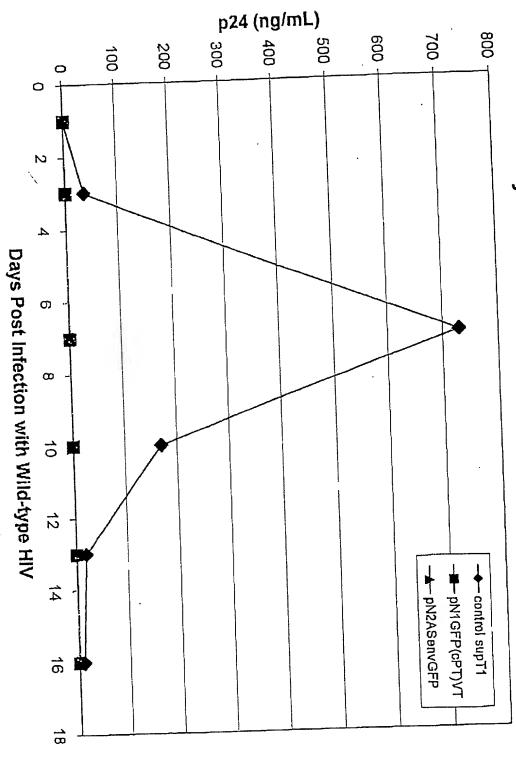


Packaging on pN1(cPT)GFP Vector Influence of Ribozyme(s) in the Titers in HeLa-tat Cells

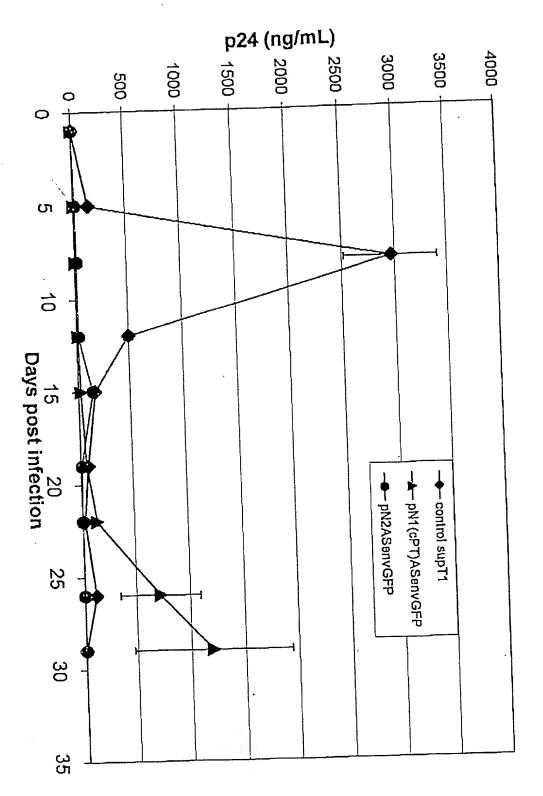


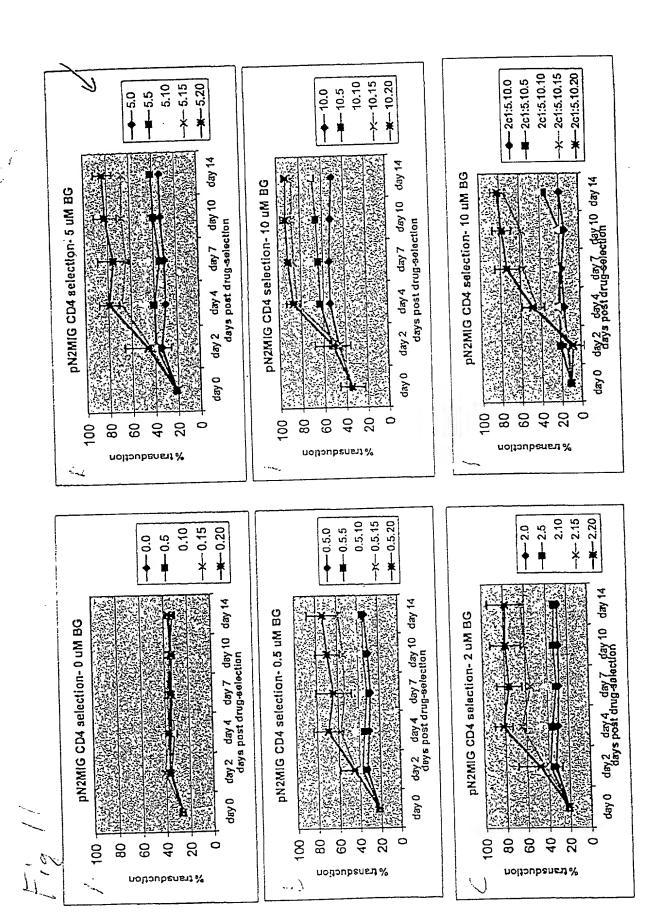
F. 9

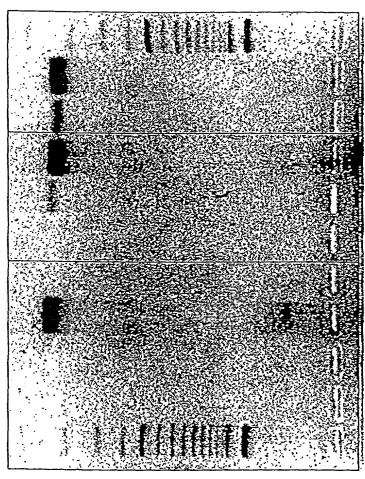




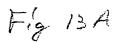
Potent Inhibition of Wild-type HIV Replication by Smartvector Containing T Cells

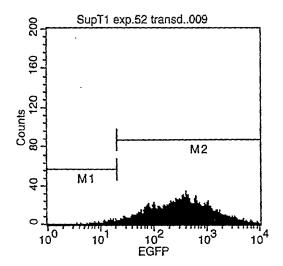






Marker
1 pN1 CGFP 1C exp 30
3 pN1 CGFP 2C exp 30
1-4 pVP1.2
9-12 pVP1.2 Rz
13-16 pVP1.2 Rz
pNL4-3 with DNase I
pNL4-3 without DNase I
Amp. Neg. Control
Extraction Neg. Control
Marker

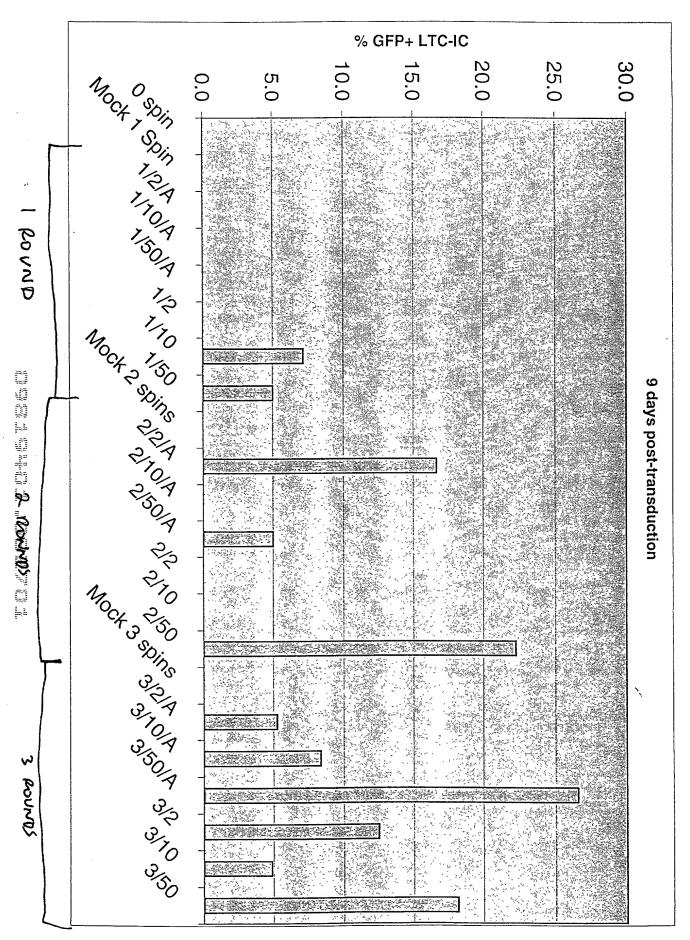




Histogram Statistics

File: SupT1 exp.52 transd..009 Tube: pN1(cPT)ASenvGFP 452 a Sample ID: SupT1 ex Acquisition Date: 25-

Marker	Left, Right	Events	% Gated	% Total	Mean
All	1, 9910	6356	100.00	63.56	570.39
M1	1, 20	95	149	0.95	13.86
M2	20, 9910	6262	98.52)62.62	13.86



7 67 6

Fig 14 A

Vsv-G, RD114 AND RD114-VSV-G CHIMERIA ENVELOPE PROTEINS

Transmembrane

Extracellular Cvtoplasmic

VSV-G

RD114

RD114-VSV-G

Chimera

G 14E

Titers of RD114-pseudotyped HIV-1 vectors in HT1080

Envelopes	IU/ml		
VSV G	3.5x10e6		
Rabies virus G	1.6x10e6		
RD114WT env	1.5x10e5		
RD114E env	3.8x10e4		

Fig 15F

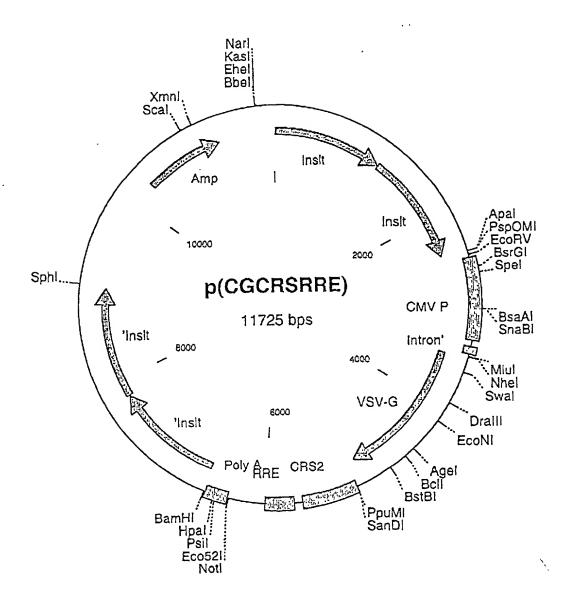


Fig 15E

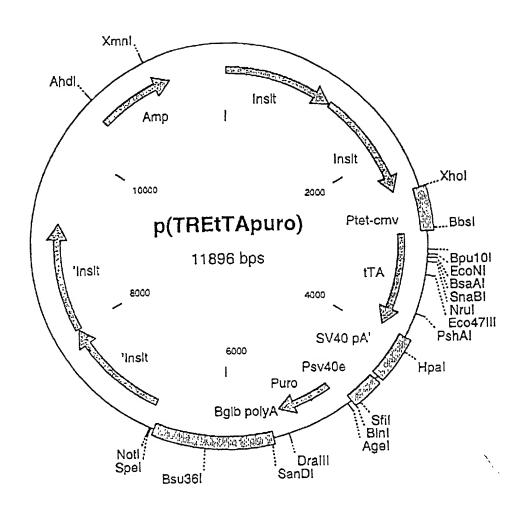
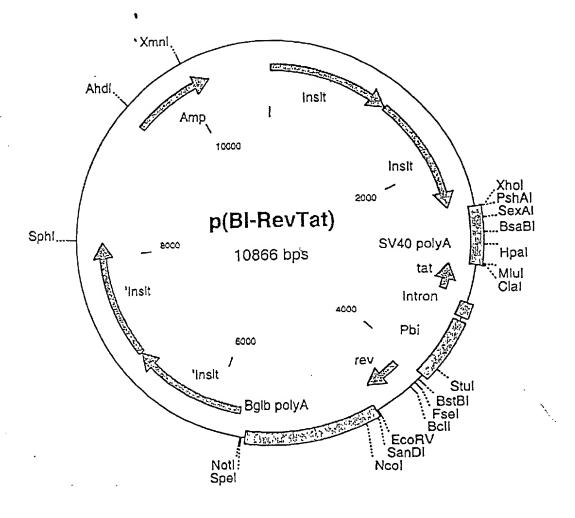


FIG ISC



ja 15D

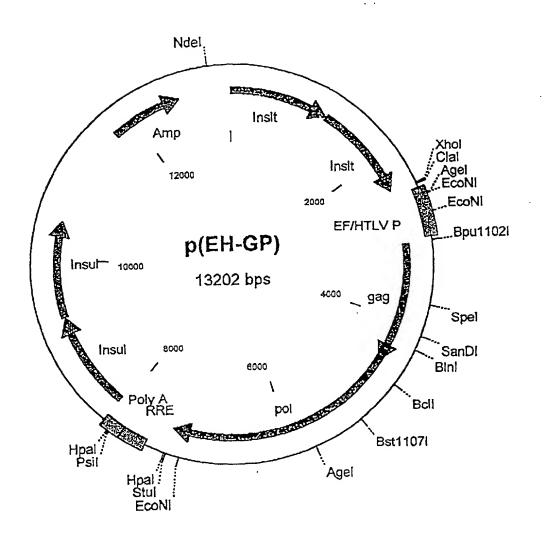
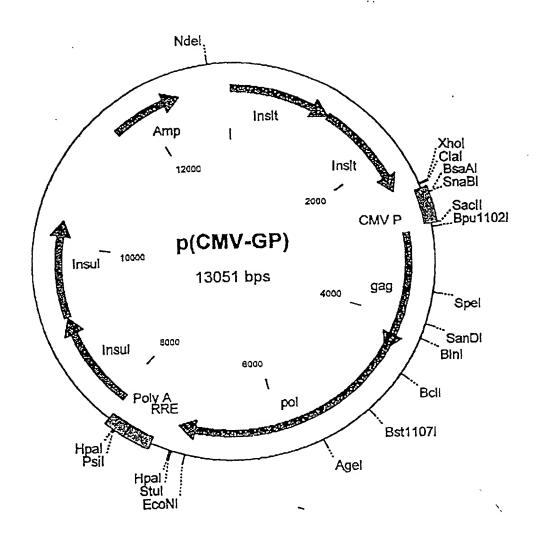


Fig ISE



To Sh

Rev dependent VSV-G constructs

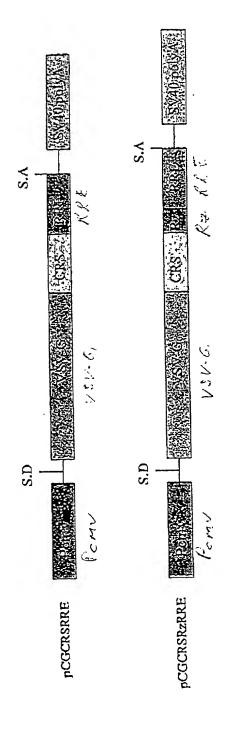
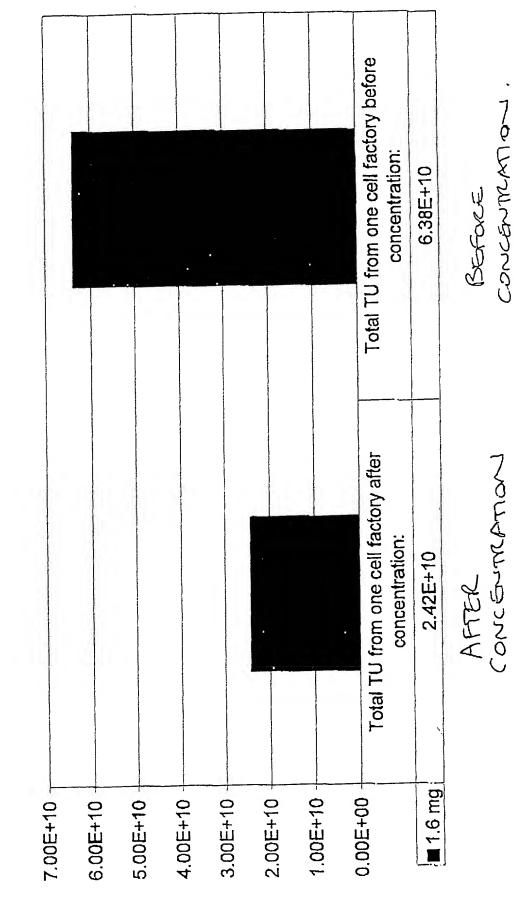


Figure 2

Factory before and after Concentration Yeild of pN1(cPT)GFP Vectors per Cell in HeLa-tat Cells.



PCMV-VSVG PCGCRS PRZ-G IP INDUCE that is the down sev 2E-HIV-2 env SD (T: B-globin SD IM-HIV-1 major SD IH-Hammarskjedis SD IE-HIVY ON SD -: pcI DEPENDENT explession of

F. 2 18

Influence of the Buffer on Vector Recovery after Storage for 3-5 Weeks at Different **Temperatures**

